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NRO REVIEW COMPLETED

3 December 1962

MEMORANDUM FOR : The Record

SUBJECT : GECART Engine Development Program -
USAP Evaluation

1. This report summarizes a conversation between Mr. E. C. Simpson of Aeronautical Systems Division, Wright-Patterson Air Force Base and the writer concerning Mr. Simpson's reaction to his visit with Pratt & Whitney, Florida on 20 November 1962.

2. The gist of Mr. Simpson's comment is as follows:

Since a previous visit in January 1962, Mr. Simpson was markedly impressed with the following areas noted on 20 November 1962:

(a) A substantially increased level of development activity in terms of the number of engines on test, meaningful programs being evaluated on test, accumulation of meaningful test time, and engine assembly turnaround operations.

(b) The solution to the turbine inlet temperature profile problem affecting durability together with the progress of various performance improvement programs in work particularly in the areas of compressor 9th stage/rematched burner case, afterburner development, and potentially increased turbine inlet temperature capability. Will probably regain most all of the presently existing performance deficiency.

(c) Reasonable progress (less than the above two areas but much improved over previous visit) in the area of engine control operation in terms of system stability. Apparently a longer range improvement program probably involving hydraulic pump response characteristics for which the Bendix control may provide an answer.

Handle via ☐ Control System

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In summary, Mr. Simpson indicated that he felt definitely encouraged with the progress demonstrated, that no insurmountable obstacles were apparent, and that the contractor was making the best possible attempt to efficiently utilize engines and test hours for problem resolution within the minimum time schedule required.

SIGNED

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Development Division
CSA-DD/R

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cc: AFCIG-5
ASD-WPAFB

DD/OSA, []

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Control System